Page

Kenji Kaneko, Takahiro Okabe, Minoru Nagata, Setsuo Ogura, Makoto Furihata, and Keizo Matsumoto: Stacked Analog—I^2L LSI 111

NUMBER 2

PART A

Electromagnetic Theory, Acoustics, Circuit Theory, Communications Theory, Mathematics and Physics

Kohshi Okumura, Kengo Takase, Hisashi Yasuda, and Akira Kishima: Numerical Solution for Sinewave Oscillator Circuits by Asymptotic Method 1

Kazuhiko Matsumoto, Takao Nishizeki, and Nobuji Saito: Algorithms for Plane Multicommodity Flows 9

Hiroshi Watanabe and Hiroshi Shimizu: Energy Trapping of Backward-Wave Width-Extensional Vibrations in Piezoelectric Strips and Its Application to Filters 17

PART B

Switching Systems, Video Communication, Microwaves and Millimeter Waves, Antennas and Propagation, Transmission Systems and Electronic Circuits

Kazuo Shimada, Minoru Higashiguchi, and Yuichi Otsu: Characteristics of Atmospheric Attenuation at 35 GHz Obtained by Sun Tracker Measurement 26

Akira Komiyama: Multiple Scattering in Electromagnetic Scattering by Many Perfectly Conducting Circular Cylinders 37

Botaro Hirosaki: Generalized Differential Coding Theorem and Its Applications 46

PART C

Electron Devices, Semiconductors and Integrated Circuits, Optical and Quantum Electronics, Electronic Circuits, Components and Materials

Mitsuhiro Kurashige: Formations of Elliptical Scanning Electron-Beam Cross Section for Removing Unscanned Area in High Resolution Camera Tubes 54

Tadashi Fukushima, Yoshiki Kobayashi, Kohtaroh Hirasawa, Tadaaki Bandoh, and Masakazu Ejiri: Architecture of an Image Signal Processor 62

Yutaka Okada, Takahiro Okabe, and Minoru Nagata: Computer Simulation with Scale Down I^2L 71

Nobuo Haneji, Kunihiro Asada, and Takuo Sugano: Microcomputer-Based Avalanche Injection System and Determination of Distributed Area Density of Traps in SiO_2 Film . . 80

Masaaki Tomizawa, Akira Yoshii, and Kiyoyuki Yokoyama: Particle Device Simulation in Si and GaAs MESFETs 88

Toshio Shinmi, Susumu Inohira, Minoru Nagata, Etsuo Hosono, Kyoichi Iida, and Makoto Furihata: I^2L Device Circuit Model with Layout Patterns 95

Ikuo Harada, Shuji Tsukiyama, and Isao Shirakawa: An Algorithm of Global Routing for Gate Array LSI 105

Masahiro Fukui, Shuji Tsukiyama, and Isao Shirakawa: A Heuristic Algorithm for a Pin Assignment Problem of Gate Array LSI 114

NUMBER 3

PART A

Electromagnetic Theory, Acoustics, Circuit Theory, Communications Theory, Mathematics and Physics

Shigetaka Takagi and Nobuo Fujii: A Synthesis of Active RC Elliptic Bandpass Filters Using Identical Biquad Sections 1

Hiroshi Watanabe, Yoshikazu Miyanaga, Nobuhiro Miki, and Nobuo Nagai: Construction of Stable Reduced-Order ARMA Model 8

Page

Masahide Sugiyama and Kiyohiro Shikano: Centroids for LPC Spectral Matching Measures and Their Application to Word Recognition 18

PART B

Switching Systems, Video Communication, Microwaves and Millimeter Waves, Antennas and Propagation, Transmission Systems and Electronics Circuits

Hiroyoshi Morikawa, Takehiko Shimizu, and Ichiro Endo: Quantization and Its Evaluation of Transmission Characteristics of Fading Channel in the Adaptive Receiving System Based on the Kalman Filter 28
Toshihiko Wakahara and Kazuhisa Watanabe: Analysis of Automatic Phase Control Circuits by Automatic Equalizer Tap Weights 37
Shin-ichi Tachikawa and Gen Marubayashi: Interference Noise of the Spread Spectrum Multiple Access Communication Systems Using Delay Transform Method 48
Keisuke Suwa, Isao Shimizu, and Takeshi Hattori: A Study on Selection Diversity for Land Mobile Radio-Baseband SNR Improvement in Thermal Noise 57

PART C

Electron Devices, Semiconductors and Integrated Circuits, Optical and Quantum Electronics, Electronic Circuits, Components and Materials

Yasuhiko Nakagawa, Kimio Nakamura, Gen Jinguji and Hiromi Furuyashiki: Effects of Initial Value on Surface Acoustic Wave Parametric Oscillation 67
Naoyuki Shigyo, Masami Konaka, and Ryo Dang: A Three-Dimensional Simulation Program for MOS Devices and Its Application to the Analysis of the Narrow-Channel Effect . . 73
Shinji Onga, Masami Konaka, and Ryo Dang: A Composite Two-Dimensional Process/Two-Dimensional Device Simulation System TOPMODE and Its Application to the Design of VLSI MOSFETS 80
Masahiro Geshiro and Shinnosuke Sawa: Analysis of Anisotropic Optical Slab Waveguides Using Hypothetical Boundaries 89
Hiraku Kitagawa: Electrical Properties of Tellurium Thin Films Evaporated onto Single Crystal NaCl 98

NUMBER 4

PART A

Electromagnetic Theory, Acoustics, Circuit Theory, Communications Theory, Mathematics and Physics

Tadaaki Takase, Shin'ichi Oishi, Hideaki Io and Kiyotaka Yamamura: Simplicial Fixed Points Algorithms for Finding Several Solutions of Nonlinear Circuits 1
Hiroyuki Wakabayashi, Masatoshi Suzuki, Nobuhiro Miki and Nobuo Nagai: A Consideration of Time Domain Analysis of Networks Containing Coupled Transmission Lines Using Their Wave Digital Filter Representation 11
Shinji Shinnaka and Takashi Suzuki: Adaptive Pole Placement Applicable to Nonminimum-Phase Systems of Unknown Order and Unknown Dead-Time 21
Masatoshi Sakawa, Toru Yumine and Yuji Nango: Interactive Fuzzy Decisionmaking for Multiobjective Nonlinear Programming Problems 31

PART B

Switching Systems, Video Communication, Microwaves and Millimeter Waves, Antennas and Propagation, Transmission Systems and Electronic Circuits

Hiroyuki Kumazawa, Masao Kasahara and Toshihiko Namekawa: A Construction of Vector Quantizers for Noisy Channels 39
Minoru Kotaki, Isao Kuriki and Chuuka Katoh: Global Distribution of Atmospheric Radio Noise 48
Jun Horikoshi: Error Performance Improvement of QDPSK in the Presence of Cochannel or Multipath Interference Using Diversity 57
Tetsuro Endo and Toshiaki Suzuki: Influence of an Interfering Second Target on a Certain Amplitude-Comparison Monopulse Radar System 66

Page

Yoshio Kami and Risaburo Sato: Coupling of Electromagnetic Waves to Transmission Lines 76

PART C

Electron Devices, Semiconductors and Integrated Circuits, Optical and Quantum Electronics, Electronic Circuits, Components and Materials

Tsutomu Kamoto, Mamoru Ohara, Yoshiji Kobayashi and Mamoru Aiki: Bipolar Monolithic Very-Wideband Amplifier 85
Masao Sato, Masayoshi Tachibana and Tatsuo Ohtsuki: An Algorithm for Resizing Polygonal Regions and Its Applications to LSI Mask Pattern Design 93
Hideo Makishima, Kiyoshi Shimokawa and Nagahisa Mita: Deflector for a Deflection-Modulated EBS Amplifier 102
Hidetoshi Onodera, Masahiro Okuda, Ikuo Awai, Masamitsu Nakajima, and Jun-ichi Ikenoue: Nb-Diffused $LiTaO_3$ Waveguides and Light Modulators by Use of Guided-to-Radiation Mode Coupling 110
Yoshiki Yamauchi, Masafumi Yamamoto, Kazunori Miyahara, and Akira Ishida: Timing Control Circuit for Josephson 1K RAM 119

NUMBER 5

PART A

Electromagnetic Theory, Acoustics, Circuit Theory, Communications Theory, Mathematics and Physics

Masami Kuramitsu and Fuyuto Takase: Analysis of Ladder Oscillators Using the Averaged Potential 1
Jiro Shimonishi, Takao Hinamoto and Sadao Maekawa: Observers for 2-D Systems with Unknown Disturbance 11
Kazuhiko Ozerki and Tetsuo Umeda: An Adaptive Filtering Algorithm Using an Orthogonal Projection to an Affine Subspace and Its Properties 19
Masato Akagi and Taizo Iijima: A Construction of Pole-Deviation Tracking Filter . . 28

PART B

Switching Systems, Video Communication, Microwaves and Millimeter Waves, Antennas and Propagation, Transmission Systems and Electronic Circuits

Kenji Ohue and Kohhei Ohtake: Analog and Digital Amplitude-Domain-Multiplexed Signal Transmission Systems Using DC-Balance mB-nB Codes 37
Junji Namiki: Block Demodulation for Short Radio Packet 47
Toshio Nojima, Yoshiharu Okamoto and Satoshi Ohyama: Predistortion Nonlinear Compensator for Microwave SSB-AM System 57
Hirohisa Yamaguchi: Optimum Quantization of Laplace Density Signal and Its Characteristics 67
Noriyoshi Terada and Yoshifumi Amemiya: The Performance of the Dipole Array Applicator for Radiofrequency Hyperthermia 74
Toshiyuki Kaneki and Shinji Kobayashi: External Q of Loop Coupled Dielectric Resonator 83

PART C

Electron Devices, Semiconductors and Integrated Circuits, Optical and Quantum Electronics, Electronic Circuits, Components and Materials

Yuji Yatsuda, Takaai Hagiwara, Shin-ichi Minami, Shinji Nabetani, Ken Uchida and Tokumasa Yasui: A Byte Erasable 5V-Only 64 Kbit EEPROM 91
Yoshimitsu Hiroshima, Shigenori Matsumoto, Toshihiro Kuriyama and Takao Kuroda: CCD Image Sensors Fabricated on Epi-Wafers 100
Kazuya Hayata, Masanori Koshiba and Michio Suzuki: Analysis of Partially Metal-Clad and Dielectric Overlay-Loaded Diffused Optical Waveguide 108
Michio Miyakawa: 1 ∿ 10 GHz Microwave Applicators for Medical Applications 117

NUMBER 6

Page

PART A

Electromagnetic Theory, Acoustics, Circuit Theory, Communications Theory, Mathematics and Physics

Takashi Kamitake, Hiroshi Harashima and Hirishi Miyakawa: A Time-Series Analysis Method Based on the Directed Transformation 1
Toshihiko Okada and Shingo Tomita: An Extended Fisher Criterion for Feature Extraction—Malina's Method and Its Problems 10
Yutaka Yasuda: Synthesis of Linear Model-Following Systems Using Measured Output Feedback 18
Etsuro Hayahara: Equivalent RC Circuit Representation of Switched-Capacitor Networks and Its Applications 27
Kohichi Kurozumi and Kengo Ohgushi: A New Sound Image Broadening Control System Using a Correlation Coefficient Variation Method 33
Masakiyo Suzuki, Masatoshi Suzuki, Nobuhiro Miki and Nobuo Nagai: A Derivation of ARMA Coefficients Using a Digital Lattice Filter 42
Kiminori Hisanaga and Shin-ichi Takahashi: Synthesis of Voltage Transfer Function Matrix with Active RC Network 53

PART B

Switching Systems, Video Communication, Microwave and Millimeter Waves, Antennas and Propagation, Transmission Systems and Electronic Circuits

Tsuneki Yamasaki, Takashi Hinata and Toshio Hosono: Analysis of Electromagnetic Fields in Inhomogeneous Media by Fourier Series Expansion Methods 61
Jun Matsuda: An Approximation for the Auto-Covariance Function of the Virtual Waiting Time in an M/G/1 and Its Applications 72
Shinobu Tosumaru: Radiation Mechanism of Perfectly Conducting Antenna—An Interpretation Using Nukiyama's Vector 79

PART C

Electron Devices, Semiconductors and Integrated Circuits, Optional and Quantum Electronics, Electronic Circuits, Components and Material

Minoru Seino, Hirochika Nakajima, Yoshimasa Daido, Ippei Sawaki and Kunihiko Asama: Optical Waveguide Analysis Using the Fourier Transform and Its Application to Intersecting Waveguides 87
Koichi Genei, Hiromasa Ito and Humio Inaba: Analysis of Modulation Characteristics of Semiconductor Laser with Lateral Field Coupling Control 96
Teruo Murakami: Design of the Pregroove-Shape on an Optical Disc Based on the Light Diffraction Analysis 104
Narumi Inoue and Yoshizumi Yasuoka: Infrared Laser Detection by Antenna-Coupled Point-Contact Schottky Diodes 114

NUMBER 7

PART A

Electromagnetic Theory, Acoustics, Circuit Theory, Communications Theory, Mathematics and Physics

Masaru Sakurai and Junzo Murakami: Analysis of the Tap Weight Fluctuation in Zero Forcing Automatic Equalizer 1
Norishige Chiba, Takao Nishizeki, Shigenobu Abe and Takao Ozawa: Embedding Planar Graphs Using PQ-Tree Algorithms 12
Yasuaki Noguchi, Yasuaki Teramachi and Toshimitsu Musha: $1/f$ Frequency Fluctuations of a Quartz Oscillator and Temperature Fluctuations 21

Page

PART B

Switching Systems, Video Communication, Microwaves and Millimeter Waves, Antennas and Propagation, Transmission Systems and Electronic Circuits

Masayoshi Mambo, Isamu Nagano, Syunji Okada and Tetsuo Fukami: An Improved Method of Estimating Electron Density Profiles in the Lower Ionosphere with VLF Reflection Coefficients 28
Seiji Mano, Takashi Tsutsumi and Takashi Katagi: Pattern Synthesis of Array Fed Reflector Antennas 38
Yoichi Saito, Hideaki Matsue and Shozo Komaki: A New Way of Generating the Nyquist Spectral Shaped High-Speed and Multilevel Digital Signals 46
Koichi Ito: Circularly Polarized Printed Array Antenna Composed of End-Fed Strip Dipoles and Slots 56
Masayuki Tanimoto, Hirotsugu Sumiyoshi and Mataji Komai: Synchronous Spread-Spectrum Multiplex Communication System by Using a Modified *M*-Sequence 70
Shigeru Okubo and Shinobu Tokumaru: A Pair of Dipole Antennas for Controlling Polarizations 78
Masashi Kuribayashi and Morihiko Taguchi: Study on Contact Mechanism and Electric Resistance Characteristics of Twisted Conductors 90

PART C

Electron Devices, Semiconductors and Integrated Circuits, Optical and Quantum Electronics, Electronic Circuits, Components and Materials

Hirobumi Saito and Hiroshi Watabe: X-Ray CCD Image Sensor with a Thick Depletion Region 100
Yasuhiko Nakagawa and Mitsuhiro Ono: Nonlinear Interaction of Surface Acoustic Waves in Waveguide 110

NUMBER 8

PART A

Electromagnetic Theory, Acoustics, Circuit Theory, Communications Theory, Mathematics and Physics

Yoshinori Uesaka: A New Fourier Descriptor Applicable to Open Curves 1
Yuji Iseki, Hiroshi Watanabe and Hiroshi Shimizu: Piezoelectric Ceramic Resonators Using the Edge-Mode Vibration 11
Hideki Kasuya, Yoshihiko Kobayashi, Takao Kobayashi, Akira Kanazawa and Satoshi Ebihara: Characteristics of Pitch Period and Amplitude Perturbation Quotients for the Detection of Glottic Cancer 21
Nobuaki Takahashi, Kenji Inomata and Tsuyoshi Takebe: A New Recursive Structure for Very High-Q Digital and SC-CTD Filters 31

PART B

Switching Systems, Video Communication, Microwaves and Millimeter Waves, Antennas and Propagation, Transmission Systems and Electronic Circuits

Akira Fukuda: Control Algorithms for Our-of-Chain Routing in a Telephone Network 41
Kenji Imamura and Takeshi Hattori: Performances of Switched Diversity for Mobile Radio Systems in Rayleigh Fading Environment 51
Nobuo Nakajima, Yoshitaro Shimanuki, Kohshi Abe and Takayoshi Furuno: 4-, 5-, 6-GHz Band Offset Antenna Featuring Low Sidelobe and High Cross Polarization Discrimination . . 60
Norikatsu Yamauchi: Modal Expansion Theory by Almost Periodic Functions for Dielectric Gratings 71
Shin Yamamoto and Osamu Ozeki: Conducted Noise Measurements of Automotive Electrical and Electronic Devices Using Artificial Network 81
Hatsuo Yabe, Kazunori Nishio and Yasuto Mushiake: Reflection Characteristics of Twisted Component in Rectangular Waveguides 90
Shigeki Saito and Shuuji Urabe: A Study on SAW Voltage-Controlled-Oscillator Using a Method of the Vector Summation 99

Page

PART C

Electron Devices, Semiconductors and Integrated Circuits, Optical and Quantum Electronics, Electronic Circuits, Components and Materials

Kunihiro Satoh and Ichiro Sakuraba: Diffraction Integral Representation of Two-Photon-Resonant Image Up-Converters 108
Hajime Yamada, Yoshichika Ichimiya and Akira Ishida: Carry Time of Magnetically Coupled Josephson Adder Circuits 117

NUMBER 9

PART A

Electromagnetic Theory, Acoustics, Circuit Theory, Communications Theory, Mathematics and Physics

Yoshiaki Baba, Shin-ichi Takahashi and Kazuo Imamura: Design of Two-Dimensional Digital Filters with Complex Coefficients 1
Shuji Endo, Yohsuke Kinouchi and Tomiyuki Ushita: Structures and Characteristics of a Neural Network Model for Generating Circadian Rhythm 11
Ryuzo Takiyama: Separating Capacity of a General Two-Layered Network of Threshold Elements 20
Atsushi Kawakami, Tsukasa Matsuda and Shin-ichi Takahashi: A Synthesis Method for the Wideband Variable Equalizers 25
Shinji Hayashi, Masaaki Honda and Nobuhiko Kitawaki: Efficient Coding of High-Quality Sound by an Adaptive Prediction Scheme 37

PART B

Switching Systems, Video Communication, Microwaves and Millimeter Waves, Antennas and Propagation, Transmission Systems and Electronic Circuits

Hideo Yamamoto and Yoshikazu Yamamoto: Design of Plant Expansion in Subscriber Optical Fiber Cable Network 47
Tetsoru Fujii, Hiroshi Harashima and Hiroshi Miyakawa: Application of Least-Squares Method to Adaptive Channel Equalizer with Frequency Sampling Filter 57
Kohhei Ohtake and Kenji Ohue: Time Spread Transmission System Using Block Conversion 66
Shinobu Tokumaru and Satoru Fukui: Microstrip Antennas Having Posts for Circular Polarization 75
Masaaki Shinohara: Analysis and Control of Reattempt Phenomenon 86

PART C

Electron Devices, Semiconductors and Integrated Circuits, Optical and Quantum Electronics, Electronic Circuits, Components and Materials

Masashi Wada, Hisakazu Iizuka, Tadashi Shibata and Ryo Dang: Modelling of Hot-Carrier Effects in Small-Geometry MOSFETs 96
Tetsuya Mizumoto, Manabu Tsuchida, Junichi Banno and Yoshiyuki Naito: Stress Birefringence in YIG and Bi:YIG Thin Films 104
Nobuo Shimizu: Fusion Splicing between Deposited Silica Waveguides and Optical Fibers 115

NUMBER 10

PART A

Electromagnetic Theory, Acoustics, Circuit Theory, Communications Theory, Mathematics and Physics

Kiyotaka Yamamura, Shin'ichi Oishi and Kazuo Horiuchi: A Decompostion Method and Acceleration Techniques for a Fixed-Point Algorithm 1

Page

Shuichi Sumita: Analysis of Single Server Preemptive Priority Queues with a Renewal Process as High-Priority Input Stream 10
Kiyosumi Yoshiya: Comparative Study on Digital Noise Suppressors for PCM Speech . . . 20
Yoshikazu Miyanaga, Nobuhiro Miki and Nobuo Nagai: ARMA Digital Lattice Filter Based on a Linear Prediction Theory 30

PART B

Switching Systems, Video Communication, Microwaves and Millimeter Waves, Antennas and Propagation, Transmission Systems and Electronic Circuits

Shoichiro Sakata, TAdao Saito and Hiroshi Inose: A PCM-TEMA One Dimensional Mobile Communication System Using Leaky Coaxial Cables 39
Takeshi Inoue, Hikaru Nakanishi, Hidehiko Sanada and Yoshikazu Tezuka: Throughput Analysis of Window Data Link Control Procedures 48
Kenji Ohue and Kohhei Ohtake: Block Interleavers with Maximum Pulse Distance 57
Masafumi Hagiwara and Masao Nakagawa: Performance of Improved Tangent-Type FM Demodulator Using Digital Signal Processing 66
Mampei Nishimura, Shuji Takamatsu and Hiroshi Shigesawa: A Numerical Analysis of Electromagnetic Scattering of Perfect Conducting Cylinders by Means of Discrete Singularity Method Improved by Optimization Process 75
Tadayoshi Yoshida and Masao Nakagawa: Spread Spectrum Synchronizing Loop for Spreading Code Modulated by Code Shift Keying 82

PART C

Electron Devices, Semiconductors and Integrated Circuits, Optical and Quantum Electronics, Electronic Circuits, Components and Materials

Tohru Koyashiki and Tsutomu Ogata: Design Considerations in Multi-Output DC-DC Converter with Magnetic Amplifiers 90
Eiichi Nishimura, Nagayoshi Morita and Nobuaki Kumagai: Theoretical Study on the Coupling of Two-Dimensional Gaussian Beam to a Dielectric Slab Waveguide 99
Ikuo Arai and Tsutomu Suzuki: A Microwave Interferometer System for the Displacement Measurements of Biological Subject 108

NUMBER 11

PART A

Electromagnetic Theory, Acoustics, Circuit Theory, Communications Theory, Mathematics and Physics

Haruo Sakata: Temporal Transient Response of Color Mechanism — Broca-Sulzer Effect of Chromaticness 1
Mitoshi Honma and Masahiko Sagawa: Improving the Accuracy and Error Analysis in Floating-Point FFT Computation 9
Takao Hinamoto, Hiroshi Kukita, and Sadao Maekawa: Approximation of Two-Dimensional Digital Filters by Separable-Denominator Rational Function 19
Tsutomu Kimoto, Shuji Tsukiyama, and Isao Shirakawa: On the Computational Complexity of an External Pin Assignment Problem 28

PART B

Switching Systems, Video Communication, Microwaves and Millimeter Waves, Antennas and Propagation, Transmission Systems and Electronic Circuits

Kaiji Mukumoto, Noriaki Nagashima, and Akira Fukuda: Centralized Data Collection Systems via Meteor Burst 36
Toyofumi Takenaka: Buffer Management Schemes for a Heterogeneous Packet Switching System 46
Nobuo Tomita, Tokihiro Kawaguchi, and Makoto Ohmura: Crosstalk Characteristics for Symmetrical Star Quad Cable with Unbalanced Terminations 55

Page

Nanning Zheng and Shinsaku Mori: All-Digital Phase-Locked Loop with Nonlinear Multi-level Quantized Phase Comparator 66
Shoichi Koike, Norinobu Yoshida, and Ichiro Fukai: Transient Analysis of Microstrip Gap 76
Hideo Yamanaka and Umar Farooq: Dielectric Measurement by H-Plane Dielectric Loaded Resonator 84

PART C

Electron Devices, Semiconductors and Integrated Circuits, Optical and Quantum Electronics, Electronic Circuits, Components and Materials

Isao Minowa and Makoto Kanno: Measurement of Contact Resistance of Electric Contacts Using SQUID Galvanometer 93
Yasuo Ebata and Shigefumi Morishita: Metal-Migration of Aluminum Film on SAW Resonator 104
Masaaki Nishikawa and Akio Kirihara: Effect of the Write Head Saturation on the Characteristics of Digital Magnetic Recording 113

NUMBER 12

PART A

Electromagnetic Theory, Acoustics, Circuit Theory, Communications Theory, Mathematics and Physics

Masahiro Hibino: Generation of Musical Tones in PARCOR Speech Synthesizer 1
Youichi Higashiyama and Hiromu Ariyoshi: An Algorithm for Generation of s-t Acyclic Graphs 10
Yutaka Kaneda and Mikio Tohyama: Noise Suppression Signal Processing Using 2-Point Received Signals 19

PART B

Switching Systems, Video Communication, Microwaves and Millimeter Waves, Antennas and Propagation, Transmission Systems and Electronic Circuits

Osamu Kawata, Koichi Hoshino, Yoshiaki Miyajima, Masatoshi Ohnishi, and Kouchi Ishihara: Axis Misalignment and Splice Loss Estimation of Single-Mode Optical Fiber Splicing Using Core Direct Monitoring 29
Ikuro Sato, Susumu Tamagawa, and Ryuichi Iwata: Quasi-Optical Diplexer by Rectangular Metallic Mesh 39
Fumiaki Machihara: Carried Traffic Estimate Errors for Delay Systems 49
Nobuaki Imai and Kazuyuki Yamamoto: A Design of High-Q Dielectric Resonators for MIC Applications 59
Hideo Kuroda, Naoki Mukawa, and Sakae Okubo: Intra-Frame Coding Equipment Using LSI Oriented Coding Algorithm 68
Hisanosuke Kawamoto: Triple Hybrid Primary Power Supply System 78

PART C

Electron Devices, Semiconductors and Integrated Circuits, Optical and Quantum Electronics, Electronic Circuits, Components and Materials

Morito Matsuoka, Yoichi Hoshi, Masahiko Naoe, and Shunichi Yamanaka: High-Rate Preparation of Co-Cr Films on Continuous Tape Substrates via a Targets-Facing Type Sputtering Method (TFTS-Method) 86
Soichi Iwamura and Yasuaki Nishida: High-Precision Automatic Ellipsometer and Whereby Evaluation of a Very Thin Silicon-Oxide Layer 96
Kiyohiko Uehara, Eiji Taguchi, Takeshi Watahiki, and Takeo Miyata: A Data Converter for Analog/Fuzzy-Logic Interface 106